

CLAIMS

Claim 20. The process of claim 36 wherein said liquid is selected from the group consisting of nonionic surfactants, anionic surfactants, water, polyethylene glycol, and mixtures thereof.

Claim 21. The process of claim 36 wherein said liquid is a nonionic surfactant.

Claim 22. The process of claim 36 wherein said liquid is polyethylene glycol having a molecular weight less than about 1000.

Claim 23. The process of claim 36 wherein said water dispersible, non-particulate detergent product has at least about 5% greater dispersability in water as compared to a non-particulate detergent product having a density of at least about 1000 g/l but not having said liquid added to said low density particulate detergent composition per step (d).

Claim 24. The process of claim 23 wherein said water-dispersible, non-particulate detergent product has in a range of from about 5% to about 200% greater dispersibility in water and wherein said liquid is polyethylene glycol having a molecular weight less than 1000.

Claim 30. The detergent product formed by the process of claim 36 wherein said liquid is a nonionic surfactant and is added to said low density detergent composition in an amount sufficient to reduce said intra-particle porosity by at least about 20%.

Claim 32. The detergent product formed by the process of claim 36 wherein said liquid is polyethylene glycol having a molecular weight less than about 1000.

Claim 33. The detergent product formed by the process of claim 36 wherein said water-dispersible, non-particulate detergent product has at least about 5% greater dispersability in water as compared to a non-particulate detergent product having a density of at least about 1000 g/l but not having said liquid added to said low density particulate detergent composition per step (d).

Claim 34. The detergent product formed by the process of claim 36 wherein said liquid is polyethylene glycol having a molecular weight less than about 1000, said polyethylene

glycol is homogeneously mixed with said spray dried detergent granules, and at least 80% by weight of said detergent product is dispersible in water after being immersed in water for no greater than about 3 minutes.

Claim 35. A method of laundering soiled clothes comprising the step of immersing said soiled clothes in an aqueous medium containing an effective amount of a non-particulate detergent product made by a process according to claim 36.

Claim 36. A process for producing a water-dispersible, non-particulate detergent product from a low density detergent composition, comprising the steps of:

- (a) providing spray dried detergent granules having a bulk density less than about 650 g/l;
- (b) providing agglomerated detergent particles having a bulk density in a range of from about 700 g/l to about 900 g/l;
- (c) mixing said spray dried detergent granules and said agglomerated detergent particles to form a low density detergent composition, wherein said spray dried detergent granules are present in a range of from about 40% to about 80% by weight of said low density detergent composition and said agglomerated detergent particles are present in a range of from about 20% to about 60% by weight of said low density detergent composition;
- (d) adding a liquid to said low density detergent composition in an amount sufficient to reduce said intra-particle porosity by at least about 10%; and
- (e) compacting said low density detergent composition having said reduced intra-particle porosity, by applying a pressure in an amount sufficient to form said water-dispersible, non-particulate detergent product having a density of at least about 1000 g/l.